CASIO®

QA-300

Operating Instructions
Bedienungsanleitung
Instructions
Instrucciones de operación
Istruzioni per l'uso

CASIO

Contents

1/General Guide

■ Main Key Functions

⊕HOUR
○   Hour/Month Key
10··HMS

MIN⊕
○   Minute/Date Key

⊙
(TIME)   Time Key

0(●)»
(ALARM)   Alarm Set Key

⏱
(TIMER)   Timer Key

AM/PM
(•)   Decimal Point / AM-PM Key

12/24
(=)   Equals / 12-24 Hour Key

(+)(−)(×)(÷)   Arithmetic Keys

»●»
(×)   Alarm ON/OFF Key

▷
(−)   Hourly Time Signal ON/OFF Key

○   Reset Button (Inside Battery Compartment)

• Other key operations are shown under "Calculation Examples".

■ About the Display

The display shows the number you input, calculation results, and various indicators showing the status of the calculator.

● Calculation display

' : 3-digit separator. This symbol is also used to indicate minutes in a time display.
" : Seconds indicator (time display)
– : Negative value indicator
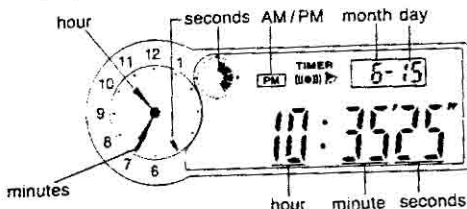M : Independent memory indicator
E : Error indicator
K : Constant calculation indicator
= : Equal indicator
⊞⊟⊠⊞ : Arithmetic operation indicators

● Time displays

TIMER: Indicates that the countdown timer is activated.
(((●))) : Indicates that the calculator will beep at the preset alarm time.
▷ : Indicates that the calculator will beep on the hour.

2/Time Functions

Be sure to set the correct time and date before using this calculator for the first time.

■To Set the Current Time and Date
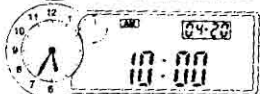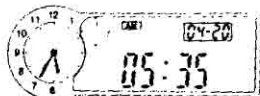
Example: To set 10:25 PM, June 15.

1. Press ⊕TIME to display the current time.

2. ⊕TIME

Hold down ⊕ for about two seconds and the hands of the analog timepiece start to flash on the display, indicating that you can set the time and date.
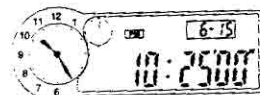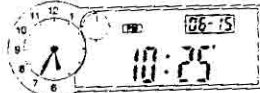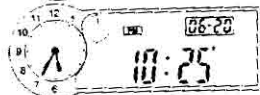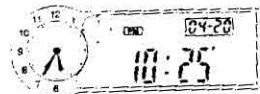
3. ① ⓪ ⊕HOUR

4. ⊙ AM/PM

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* Each time you press AM/PM, the current setting changes to the opposite one.
* You can also use ⊜ to switch between 12-hour and 24-hour timekeeping format. Each press changes to the opposite format.

5. ② ⑤ ⊙MIN⊕

6. ⓪ ⑥ ⊕HOUR

7. ① ⑤ ⊙MIN⊕

8. On a time signal from a radio or TV, press ⊕TIME to start timekeeping from the time you set. When you do, the seconds count is reset to 00.

⊕TIME

- Even if you plan only to reset the seconds count to 00, be sure to input the hour and minutes first.
- If you want to clear your input during the above procedure, press Ⓒ.
- If you generate an error ("E" indicator) in the above procedure (by inputting 65 for the minutes, for example), press Ⓒ to clear it.
- To interrupt the time and date setting procedure at any point, press ⒶⒸ.
- Note that the clock is designed to change from February 28 to March 1, without making allowance for leap year. Be sure to correct the date during leap years.
- The analog timepiece is automatically synchronized with the digital timepiece. You do not need to make any settings for the analog timepiece.
- You can select whether or not to display a second hand on the analog timepiece. At any point between steps 2 and 8 in the above procedure, press the ⊕ key to switch between display and non-display of the second hand.

■Automatic Timekeeping Mode Display

If you do not perform any operation on the calculator for about six minutes, it automatically switches to display of the current time. Note that calculation memory contents are retained when this happens.

3/Using the Alarm and Hourly Time Signal

After you set an alarm, a buzzer sounds for about 20 seconds each date at the preset time. Once the alarm starts to sound, you can stop it by pressing any key. With the hourly time signal, the calculator beeps twice at the top of each hour.

Symbol	Not Lit	" ((•)) "	" ▷ "	" ((•)) ", " ▷ "
Alarm	Does not sound	Sounds	Does not sound	Sounds
Hourly Time Signal	Does not sound	Does not sound	Sounds	Sounds

■To Set the Alarm Time

Example: To set 7:30 AM.
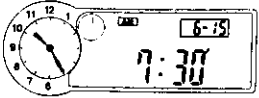
1. Press (ALARM) to display the current alarm setting.

2. ⑦ ◉HOUR ○

3. ◉ AM/PM

4. ③ ⑩ ◉MIN ○

- If you do not input anything for the minutes, they are automatically set as 00.

5. Press ◉ (ALARM) to store the setting.

- At this time the indicator "AL" appears to indicate that an alarm time is set, and the alarm is automatically switched on (indicated by ㈜) on the display.
- If you want to clear your input during the above procedure, press ⓒ.
- If you generate an error ("E" indicator) in the above procedure (by inputting 65 for the minutes, for example), press ⓒ to clear it.

■To Switch the Alarm On and Off
While the current alarm time setting is displayed (press ◉ (ALARM)), press ◉ (×) to switch the alarm on and off. The alarm does not sound at the preset time when it is switched off.

■To Switch the Hourly Time Signal On and Off
While the current alarm time setting is displayed (press ◉ (ALARM)), press ◉ (−) to switch the hourly time signal on and off.
The indicator "♭" appears to indicate that the hourly time signal is set.

■To Test the Alarm
While the current alarm time setting is displayed (press ◉ (ALARM)), hold down ⊕ for about two seconds to sound the alarm.

Note
- If more than one alarm is set to sound at the same time, they sound in the sequence: timer, alarm, hourly time signal, test alarm.

4/Using the Timer

You can set a countdown timer with a starting time up to 99 hours and 59 minutes. When the countdown reaches zero, an electronic buzzer sounds for about 10 seconds.

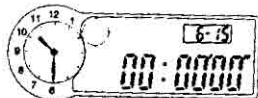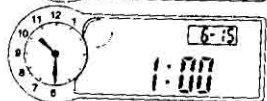## ■To Set the Starting Time and Start Operation

Example: To set 1 hour 30 minutes.

1. Press 🕒 to enter the Timer Mode.

2. ① ○⊕HOUR

• You can input a value up to 99. Any greater value produces an error. You can clear the error by pressing ©.
• If you want to set minutes only, skip this step.

3. ③ ⓪ ○MIN⊕
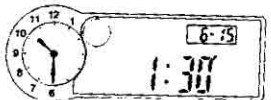
• Any number greater than 59 is automatically converted to the corresponding number of hours and minutes.

4. Press 🕒 to start the countdown operation.
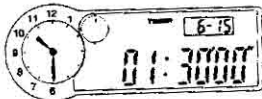
• If you want to clear your input during the above procedure, press ©.
• To interrupt an ongoing countdown operation, press ©. At this time the display changes to 00:00'00".
• If you want to input only minutes in the above procedure (and keep the number of hours 00), simply input the minutes and press 🕒 to start the operation.
• If you enter the Timekeeping Mode and change the date or time setting while the timer is operating(counting down), it may affect the countdown operation by a few seconds.

■To Test the Timer Alarm

While the current alarm time setting is displayed (press 🔔), hold down ⊕ for about two seconds to sound the timer alarm.

5/Correcting Input Errors

- If you input the wrong number (or hour) when inputting values for a calculation (or time calculations), press Ⓒ to clear the wrong input.
- If you input the wrong minutes or seconds for time calculations, re-input the correct value. Be sure to input leading zeros so that all input is two digits.
- If you press the wrong arithmetic operation key (⊕, ⊖, ⊗, ⊕), simply press the correct key before inputting anything else.

■Clearing Calculations

- To clear the calculator completely (except independent memory), press ⒶⒸ.
- To clear the independent memory only, press (MRC) twice.

■Error Indicator

The error indicator "E" appears on the display whenever any of the following conditions exist. To clear an error, press Ⓒ to clear the error and continue with the calculation, or ⒶⒸ to clear the entire calculation.

- Whenever the integer part (the value to the left of the decimal point) of a calculation's intermediate result or final result becomes greater than 8 digits. Along with the error indicator, an approximation of the value appears on the display. The following table illustrates the value that appears when you attempt to perform the calculation:

  $123,456 \times 741,852 = 91,586,080,512$

Display	E 915.86080

- Whenever the integer part of the value stored in independent memory or grand total memory is greater than 8 digits. At this time, the display shows "0.", but the memory retains the value it had before the overflow occurred.
- Whenever an attempt is made to perform division by zero (as in 6⊕0).
- Whenever the profit in a mark-up calculation is 100%.

6/Power Supply

This unit is powered by a single CR2032 lithium battery.

■Battery Replacement

If the display becomes dim or if the clock is not keeping time correctly, you probably need to replace the lithium battery.

■To Replace the Battery

1. Loosen the screw on the back of the unit and remove the battery compartment cover.
2. Remove the old battery.
3. Wipe off the surface of the new battery with a soft, dry cloth and insert it into the battery case so that its positive ⊕ side is facing up (so you can see it).
4. Press the RESET button with a thin, pointed object.
5. Replace the battery compartment cover and secure it in place with the screw.

* Resetting the calculator automatically changes the current time to 12:00 AM and clears the memory.
* Replace the battery at least once every five years, regardless of how much you use the calculator during that time.
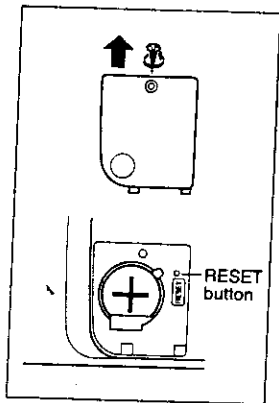
* The battery installed at the factory discharges during shipment and storage. You may need to replace the original battery sooner than three years after you purchase the calculator.

■Important Battery Precautions

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the unit. Note the following precautions:

* Be sure that the positive ⊕ side of the battery is facing up (so you can see it) when you install it in the calculator.
* Never leave a dead battery in the battery compartment. A dead battery can leak and damage the calculator if left in the battery compartment for long periods.
* Remove the battery if you do not plan to use the unit for long periods.
* Never try to recharge the battery supplied with the unit.
* Never expose batteries to direct flame or intense heat.

Keep batteries out of the reach of small children. If swallowed, consult with a physician immediately.

■About the RESET Button

Use the RESET button located inside the battery compartment to reset the calculator's memory in the following cases.

• After you change batteries.
• Whenever the calculator operation becomes abnormal (which happens if it is exposed to strong electrostatic charge).

Note that the calculator is initialized as described below whenever you perform the reset operation.

    Clock: AM 12:00 1-1 (January 1)
    Analog Second Hand: Not displayed
    Alarm time: AM 12:00
    Alarm: Off
    Hourly time signal: Off
    Timer: 00:00′00″

• Pressing the RESET button deletes all memory contents! Be sure not to press it unless necessary.

Important!

• When you press the RESET button with a pencil or other pointed object, be sure to avoid pressing it too strongly. Otherwise you might damage your calculator.

7/Important Precautions!

• Never allow this calculator to be exposed to direct flame.
• Avoid use and storage under temperatures extremes. Do not place the calculator in direct sunlight, near windows, near a heater, or anywhere else where it is subjected to high heat. Heat can lead to discoloration or warping of the case, and can even damage internal circuitry.
• Under very low temperatures, display response may slow down or fail entirely. This condition is temporary and operation should return under normal temperatures.
• Avoid use and storage in areas subject to excessive moisture, dirt, and dust. Direct contact with liquids and dust can damage internal circuitry.
• Avoid dropping the calculator and otherwise subjecting it to severe impact.
• Never bend or twist the case.
• Never try to take the calculator apart.
• Do not use a pen, pencil, or other sharp object to press keys.
• To clean the exterior of the calculator, wipe it off with a soft cloth dampened in a weak solution of a mild neutral detergent and water. Be sure to wring out any excess moisture from the cloth before wiping off the calculator. Never use benzene, thinner, or any other volatile agent to clean the calculator. Doing so can wipe off the figures printed on the case or otherwise damage its finish.

- The contents of these instructions are subject to change without notice.
- CASIO Computer Company, Ltd. assumes no responsibility for any loss or claims by third parties which may arise from the use of this product.

8/Specifications

Model: QA-300

■ Calculator

Calculation Functions:
Four basic calculations; constants; percents; time calculations; approximations; other mixed calculations
Number of Calculation Digits: 8
Memory: 3-key memory system

■ Clock Function
Quartz oscillator frequency: 32,768 Hz
Accuracy: Within 3 seconds per day (average) at normal temperature
Basic Functions:
Digital timekeeping showing hour, minutes, seconds, AM/PM, month, date
Analog timekeeping showing hour, minutes, seconds

Alarm Functions: 20-second electronic buzzer
Hourly Time Signal: Sounds every hour, on the hour
Timer Functions:
Time measured in 1-second units; setting in 1-minute units; 10-second electronic buzzer; setting up to 99 hours 59 minutes
Other:
Automatic return to display of current time; 12/24-hour timekeeping format; alarm test

■ General
Power Supply: One CR2032 lithium battery
Battery Life: Approximately 3 years (one 20-second buzzer operation per day)
Operating Temperature: 0°C to 40°C (32°F ～ 104°F)
Dimensions: 29.3(H) × 128.5(W) × 128(D)mm (1⁷⁄₈"H × 5"W × 5"D)
Weight: 120g (4.2oz) (including battery)